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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/964,161	09/26/2001	John Clifford Head	CELL-0145	9582
7	590 11/13/2003	EXAMINER		
Francis A. Paintin, Esq. WOODCOCK WASHBURN KURTZ MACKIEWICZ & NORRIS 46th Floor One Liberty Place			TRUONG, TAMTHOM NGO	
			ART UNIT	PAPER NUMBER
			1624	C/
Philadelphia, I	Philadelphia, PA 19103			8

Please find below and/or attached an Office communication concerning this application or proceeding.

1						
	Application No.	Applicant(s)				
	09/964,161	HEAD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tamthom N. Truong	1624				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a noisy within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 25 A	<u> August 2003</u> .					
2a) This action is FINAL . 2b) ☐ This	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1, 4-6, 8-11, and 14</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	☑ Claim(s) 1, 4-6, 8-11, and 14 is/are rejected.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list 13) Acknowledgment is made of a claim for domest since a specific reference was included in the first 37 CFR 1.78. a) The translation of the foreign language profits Acknowledgment is made of a claim for domest reference was included in the first sentence of the service of the serv	ts have been received. Its have been received in A prity documents have been us (PCT Rule 17.2(a)). It of the certified copies not the priority under 35 U.S.C. and sentence of the specification with the priority under 35 U.S.C. and the specification has been priority under 35 U.S.C.	pplication No received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Theories 9	summary (PTO-413) Paper No(s)				
 Notice of References Cited (PTO-692) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Ir	oformal Patent Application (PTO-152)				

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DETAILED ACTION

Applicant's amendment of 8-25-03 has been fully considered. Although the amended claims have overcome the previous rejections of 112/2nd, 102(b)/(e), and double patenting, it is noted that the scope of the amended claim is not adequately enabled. Thus, the following rejection of "Scope of Enablement" is presented. Claims 2, 3, 7, 12, and 13 have been cancelled, leaving claims 1, 4-6, 8-11, and 14 remaining for consideration.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Scope of Enablement: Claims 1, 4-6, 8-11, and 14 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the preparation and use of compounds of formula (1) wherein "Het" is a monocyclic system, does not reasonably provide enablement for the preparation and use of compounds of formula (1) wherein "Het" is a substituted 9- to 13-membered fused-ring heteroaromatic group. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

The following factors have been considered in the determination of an enabling disclosure:

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- (1) The breadth of the claims;
- (2) The amount of direction or guidance presented;
- (3) The state of the prior art;
- (4) The relative skill of those in the art;
- (5) The predictability or unpredictability of the art;
- (6) The quantity of experimentation necessary;

[See *Ex parte Forman*, 230 USPQ 546 (Bd. Pat. App. & Int., 1986); also *In re Wands*, 858 F. 2d 731, 8 USPQ 2d 1400 (Fed. Cir. 1988)].

- 1. The breadth of the claims: Claims 1, 4-6, 8-11, and 14 allows for compounds of formula (1) having "Het" as a substituted 9- to 13-membered fused-ring heteroaromatic group, which encompasses a large number of bicyclic or tricyclic systems.
- 2. The amount of direction or guidance presented: Although the specification has a written description for such a group on page 8, it does not disclose the actual starting materials. The generic teaching on page 22 provides an intermediate of formula (4): "HetCO₂H", however it does not teach the preparation of such a formula. From the examples, it appears that the only representative of formula (4) is "nicotinic acid", which is a monocyclic system, and not a 9- to 13-membered fused-ring heteroaromatic group. Thus, one cannot follow the examples to prepare a compound of formula (1) with "Het" as a bicyclic or tricyclic system. Regarding the biological activity, because there is no structural similarity between a monocyclic system and a bicyclic or tricyclic system, one cannot extrapolate the activity of species having Het as "nicotinoyl" to

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those having Het as a substitued 9- to 13-membered fused-ring heteroaromatic group. Therefore, there is no enablement for the alleged use of "a pharmaceutical composition".

3. The state of the prior art, as evident by references cited in the previous 102 rejections, does not teach a compound analogous to those of the instant formula (1) with Het as a substitued 9- to 13-membered fused-ring heteroaromatic group. Thus with the unpredictable nature of the art, the skilled chemist and clinician would have to carry out undue experimentation to make and use the claimed compounds of formula (1) since the provided guidance is limited to Het as a monocyclic system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamthom N. Truong whose telephone number is 703-305-4485. The examiner can normally be reached on M-F (7 am -12 pm, and 3 pm - 6 pm) starting from 10-1st -03).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on 703-308-4716. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

T. Truong

November 12, 2003

ALAN L. ROTMAN

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